

Comparisons of Job Characteristics

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation: Civil Engineering Technicians (17-3022)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

Knowledge

Similarity of Focus Occupation to Associated Occupation: 66

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation: Civil Engineering Technicians (17-3022)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Engineering and Technology	5.7	15.6	10.6	<< Extensive education and/or training may be required
Building and Construction	4.0	15.1	16.9	> Current knowledge level is likely sufficient
Mathematics	9.2	15.0	12.8	< Expanded education and/or training may be required
Design	5.2	14.1	10.9	<< Extensive education and/or training may be required
Public Safety and Security	6.9	10.6	10.2	0 Current knowledge level may be sufficient
Geography	3.9	9.0	3.7	<< Extensive education and/or training may be required
Transportation	4.6	8.6	5.6	<< Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 75

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)

Associated Occupation: Civil Engineering Technicians (17-3022)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation
Reading Comprehension	10.7	12.9	10.8	< A higher skill level may be required
Mathematics	6.2	8.7	6.4	<< Extensive development of skills in this area may be required
Operations Analysis	5.0	7.9	7.6	0 Current skill level may be sufficient

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 93			
Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011) Associated Occupation: Civil Engineering Technicians (17-3022)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Oral Comprehension	12.5	12.8	13.4	0	Current ability level may be sufficient
Near Vision	11.1	12.6	11.0	<	Some improvement in abilities may be required
Oral Expression	12.4	12.2	13.3	0	Current ability level may be sufficient
Deductive Reasoning	10.6	11.4	11.2	0	Current ability level may be sufficient
Visualization	7.5	11.4	9.8	<	Some improvement in abilities may be required
Written Comprehension	11.0	11.4	10.7	0	Current ability level may be sufficient
Written Expression	9.8	11.4	10.6	0	Current ability level may be sufficient
Problem Sensitivity	11.1	10.8	12.1	>	Current ability level is likely sufficient
Mathematical Reasoning	6.3	10.3	6.9	<<	Extensive improvement in abilities may be required
Number Facility	6.3	9.2	8.2	<	Some improvement in abilities may be required
Memorization	5.6	6.9	5.5	<	Some improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Activities that Both Occupations Have in Common		Similarity of Focus Occupation to Associated Occupation: 64
Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011) Associated Occupation: Civil Engineering Technicians (17-3022)		
Work Activities	Exclusivity of Activity	
Inspect project operations, or site to determine specification compliance	72	
Prepare safety reports	60	
Read blueprints	10	
Read technical drawings	7	
Understand construction specifications	53	

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 67

Focus Occupation: Supervisors of Construction and Extraction Workers (47-1011)
Associated Occupation: Civil Engineering Technicians (17-3022)

Tools and Technologies	Exclusivity
Audio and visual equipment	4
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Cutting and crimping and punching tools	3
Earth moving machinery	11
Forming tools	2
Humidity and moisture measuring instruments	15
Indicating and recording instruments	2
Industry specific software	1
Information exchange software	1
Land surveying instruments	19
Length and thickness and distance measuring instruments	2
Masonry and concrete tools	22
Measuring and layout tools	3
Mechanical instruments	14
Meteorological instruments	16
Personal communication devices	2
Safety apparel	4
Temperature and heat measuring instruments	6
Vision protection and accessories	3

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.